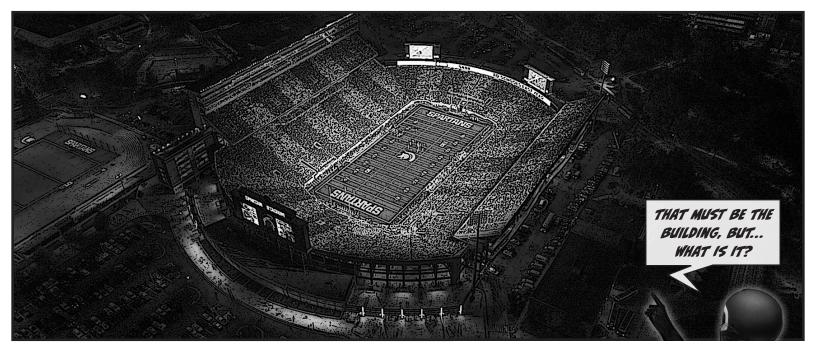


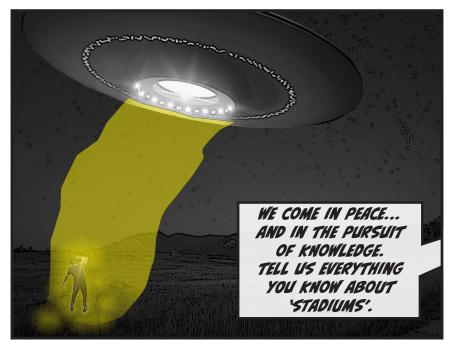
INHABITANTS OF PLANET EARTH CONTINUE TO PLAN & DEVELOP GIANT BUILDINGS THAT APPEAR TO LOSE MONEY, WASTE SPACE, AND CREATE A HOST OF NEGATIVE EXTERNALITIES. IT'S UNCLEAR TO THE REST OF THE UNIVERSE WHY THIS URBAN PHENOMENON KEEPS OCCURRING.

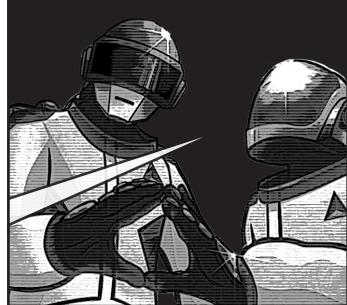
LET'S CHECK OUT WHAT MAKES EARTHLINGS THINK PLANNING & DEVELOPING THESE BUILDINGS ARE GOOD IDEAS.



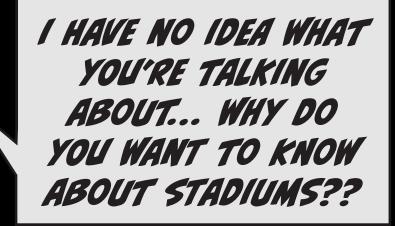


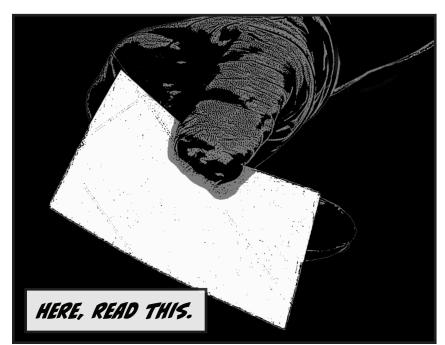


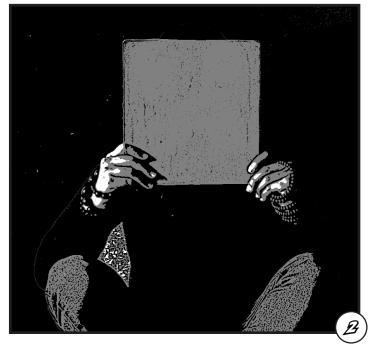


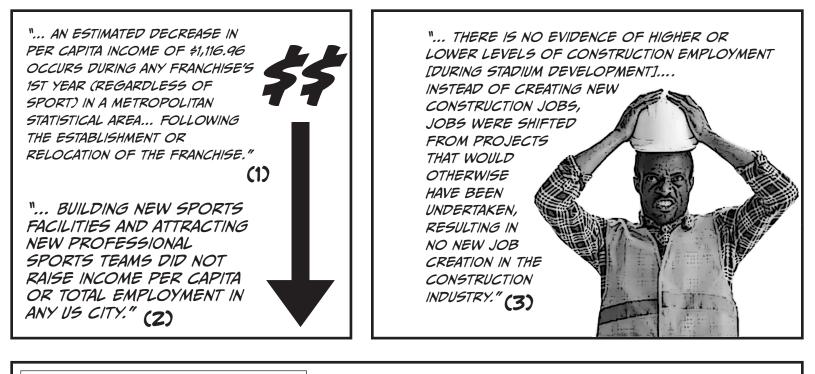












City and State	Professional Sport	Year Opened	Total Cost	Public Subsid y	Age of Facility Replace d
Cincinnati, OH	Baseball	2003	\$297 mil.	\$297 mil.	34
Detroit,MI	Football	2002	\$306 mil.	\$199 mil.	27
Houston, TX	Football	2002	\$374 mil.	\$257 mil.	37
Boston, MA	Football	2002	\$332 mil.	none	31
Seattle,WA	Football	2002	\$408 mil.	\$306 mil.	26
San Antonio, TX	Basketball	2002	\$179 mil.	\$179 mil.	9
Denver, CO	Football	2001	\$417 mil.	\$313 mil.	41
Pittsburgh, PA	Football	2001	\$263 mil.	\$183 mil.	31
Dallas, TX	Basketball*	2001	\$438 mil.	\$219 mil.	21
Milwaukee, WI	Baseball	2001	\$410 mil.	\$317 mil.	48
Pittsburgh, PA	Baseball	2001	\$273 mil.	\$231 mil.	31
Cincinnati, OH	Football	2000	\$479 mil.	\$479 mil.	31
Atlanta, GA	Basketball*	2000	\$227 mil.	\$195 mil.	3
Detroit, MI	Baseball	2000	\$319 mil.	\$122 mil.	88
Houston, TX	Baseball	2000	\$266 mil.	\$191 mil.	35
San Francisco, CA	Baseball	2000	\$351 mil.	\$11 mil.	40
Cleveland, OH	Football	1999	\$311 mil.	\$311 mil.	53
Nashville, TN	Football	1999	\$319 mil.	\$319 mil.	
Denver, CO	Basketball*	1999	\$187 mil.	\$10 mil.	24
Los Angeles, CA	Basketball*	1999	\$363 mil.	\$65 mil.	32
Indianapolis, IN	Basketball	1999	\$201 mil.	\$87 mil.	25
Seattle, WA	Baseball	1999	\$587 mil.	\$409 mil.	23
Baltimore, MD	Football	1998	\$251 mil.	\$251 mil.	44
Tampa, FL	Football	1998	\$190 mil.	\$190 mil.	22
Miami, FL	Basketball*	1998	\$197 mil.	none	10
Phoenix, AZ	Baseball	1998	\$392 mil.	\$267 mil.	

"... THE MAJORITY OF THE FINANCING FROM THESE NEW SPORTS FACILITIES CAME FROM PUBLIC, NOT PRIVATE, SOURCES."

"ON AVERAGE, PUBLIC FINANCING ACCOUNTED FOR 65% OF THE COST OF THESE PROJECTS, AND THE AVERAGE AMOUNT OF PUBLIC SPENDING WAS \$208 MILLION." (2)

SO WAIT, LET ME GET THIS STRAIGHT: STADIUMS ARE NOT ASSOCIATED WITH POSITIVE ECONOMIC ACTIVITY IN CITIES? AND THEY ALSO GENERALLY USE UP A HUGE CHUNK OF CITY & TAXPAYER MONEY TO GET BUILT?!

(2)

YUP, THAT'S RIGHT.

AND ALSO, WHAT'S ATLANTA DOING? THEY BUILT A BRAND NEW STADIUM FOR **\$227M** WITH A \$195M PUBLIC SUBSIDY AFTER





В



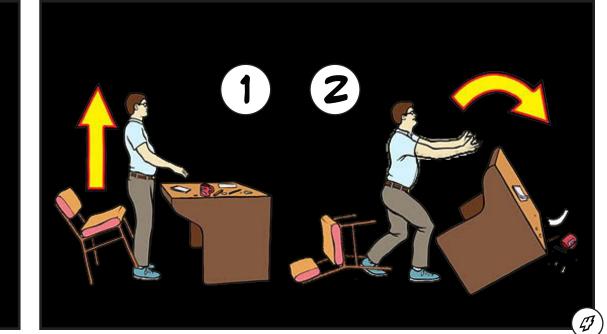
WELL THAT MAKES ABSOLUTELY NO SENSE. ESPECIALLY CONSIDERING THAT THESE PROJECTS ARE ALL GENERATING NEGATIVE CASH FLOW.

		FINANCING			
		Loan-to-Value Ratio	60.00%		
		Equity	\$210,000,000		
		Debt	\$315,000,000		
		Interest Rate	10.00%		
		Mortgage Constant	0.0680473		
		Cap Rate	6.50%		
TOTAL DEVELOPMENT COST		Cap Rate @ Sale	6.20%		
Acquisition Costs	\$25,000,000	Discount Rate	10.00%		
Construction Costs	\$500,000,000				
Total Development Costs	\$525,000,000	INCOME			
		Rents Affordable (Annual)			
PROGRAMMING		Affordable 2-Bedroom (100% AMI)	\$83,125		
Land & Programming Square Foo	tage	Affordable 2-Bedroom (70% AMI)	\$58,188		
Land SF	600,000	Affordable 2-Bedroom (30% AMI)	\$17,456		
Building & Parking Total SF	1,100,000	Rents Market Rate (Annual)			
Retail Total SF	50,000	1-Bedroom	\$22,800		
Retail Cost/SF	\$50	2-Bedroom	\$30,000		
# of Units, Parking Spots, & Vacanc	У	Miscellaneous	-		
# of 1-Bedroom Apartments	150	Parking Space Rental (Annual)	\$6,000		
# of 2-Bedroom Apartments	200	Gross & Additional Income Growth Rate	3.0%		
# of Parking Spots	20,000				
Apartment Vacancy	3%	EXPENSES			
Retail Vacancy	5%	Operating Expenses/SF	\$5.00		
Household Size	100% of AMI	Real Estate Taxes/SF	\$3.00		
1-Person	\$68,450	Replacement Reserve/SF	\$1.00		
2-Persons	\$78,250	Sales Expenses as % of Sale Price	6.0%		
3-Persons	\$88.000	Expenses Growth Rate	5.00%		

1	2	3	4	5	6
\$9.314.400.00	\$9.593.832.00	\$9.881.646.96	\$10.178.096.37	\$10.483.439.26	\$10,797,942,44
\$69 825 00	\$71 919 75	\$74 077 34	\$76 299 66	\$78 588 65	\$80,946,31
					\$2.898.185.19
\$11,884,225.00	\$12,240,751.75	\$12,607,974.30	\$12,986,213.53	\$13,375,799.94	\$13,777,073.94
(\$281 526 75)	(\$289,972,55)	(\$298 671 73)	(\$307.631.88)	(\$316 860 84)	(\$326,366.66)
(\$125,000.00)	(\$128,750.00)	(\$132,612.50)	(\$136,590.88)	(\$140,688.60)	(\$144,909.26)
\$120,000,000.00	\$123,600,000.00	\$127,308,000.00	\$131,127,240.00	\$135,061,057.20	\$139,112,888.92
\$404 477 000 OF	6405 400 000 00	£420 404 600 07	6440.000.70	¢447.070.207.70	\$152.418.686.93
\$131,477,090.25	\$135,422,029.20	\$139,464,690.07	\$143,009,230.76	\$147,979,307.70	\$152,410,000.95
(\$5,250,000.00)	(\$5,512,500.00)	(\$5,788,125.00)	(\$6,077,531.25)	(\$6,381,407.81)	(\$6,700,478.20
(\$3,150,000.00)	(\$3,307,500.00)	(\$3,472,875.00)	(\$3,646,518.75)	(\$3,828,844.69)	(\$4,020,286.92
(\$1,100,000.00)	(\$1,155,000.00)	(\$1,212,750.00)	(\$1,273,387.50)	(\$1,337,056.88)	(\$1,403,909.72
(\$9,500,000.00)	(\$9,975,000.00)	(\$10,473,750.00)	(\$10,997,437.50)	(\$11,547,309.38)	(\$12,124,674.84
\$121,977,698.25	\$125,447,029.20	\$129,010,940.07	\$132,671,793.28	\$136,431,998.32	\$140,294,012.09
\$21,434,899.50	\$21,434,899.50	\$21,434,899.50	\$21,434,899.50	\$21,434,899.50	\$21,434,899.50
\$100,542,798.75	\$104,012,129.70	\$107,576,040.57	\$111,236,893.78	\$1,865,586,901.52	\$118,859,112.59
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\$325,065,100.50	\$336,136,711.05	\$348,315,482.66	\$361,712,131.42	\$376,448,445.06	1
			SINGLE PERIOD (YEAR 1) RETURN MEASURES		т
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				-500.320.000.00	-
	\$1,750,589,802.69		Copronicos Value		
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\$91,402,544.32	\$85,960,437.77	\$80,823,471.51	\$75,976,295.18	\$1,158,382,687.17	1
\$91,402,544,32	\$177.362.982.08	\$258,186,453,59	\$334,162,748,77	\$1,492,545,435,94	1
				\$1,282,545,435.94	-1
	\$9,314,400,00 \$60,825,00 \$11,664,225,00 \$11,664,225,00 \$11,664,225,00 \$11,264,276,00 \$125,000,000,00 \$131,477,698,25 \$126,000,000 \$131,477,698,25 \$21,454,899,50 \$10,642,798,78 \$10,642,798,78 \$10,000,000 \$121,977,698,25 \$21,454,899,50 \$315,000,000,00 \$121,977,698,25 \$21,454,899,50 \$315,000,000,00 \$121,977,698,25 \$21,454,899,50 \$315,500,000,00 \$121,977,698,25 \$21,454,899,50 \$315,500,000,00 \$121,977,698,25 \$21,454,899,50 \$315,500,000,00 \$315,500,000,00 \$315,500,000,00 \$315,500,000,00 \$315,500,000,00 \$315,500,5100,50 \$325,085,100,50	\$9,314,400,00 \$9,9382,20   \$90,352,00 \$71,919,75   \$2,260,000,00 \$2,75,000,00   \$11,804,235,00 \$12,240,71,75   \$11,804,235,00 \$12,240,71,75   \$11,804,235,00 \$12,240,71,75   \$12,240,79,175 \$123,670,00,00   \$12,240,79,175 \$123,670,00,00   \$12,240,000,000 \$123,670,00,00   \$12,240,000,000 \$123,670,00,00   \$13,477,688,25 \$155,422,029,20   \$13,147,688,25 \$155,422,009,20   \$13,147,688,25 \$125,467,000,00   \$13,147,688,25 \$125,447,028,20   \$21,434,899,50 \$21,434,899,50   \$21,434,899,50 \$22,1434,899,50   \$21,434,899,50 \$22,1434,899,50   \$21,434,899,50 \$22,1434,899,50   \$21,434,899,50 \$22,1434,899,50   \$21,434,899,50 \$22,1434,899,50   \$21,434,899,50 \$22,1434,899,50   \$21,434,899,50 \$22,444,7428,899,50   \$21,434,899,50 \$22,444,7428,899,50   \$21,434,899,50 \$22,444,7428,899,50   \$21,434,899,50	\$9,314,400.00 \$30,593,852.00 \$9,881,564.69   \$90,825.00 \$27,1919,75 \$57,4077,34   \$2,200,000.00 \$22,575,000.00 \$52,862,250.00   \$11,849,255.00 \$12,240,177,15 \$12,260,774.30   \$11,849,255.00 \$12,240,177,15 \$12,260,774.30   \$11,849,255.00 \$12,240,177,15 \$12,260,774.30   \$11,849,255.00 \$12,240,774.30 \$12,240,777,974.30   \$12,240,775,900,000 \$123,692,200 \$132,612,200   \$120,000,000,00 \$123,600,000 \$127,308,000,00   \$13,477,688,25 \$138,442,000,000 \$127,308,000   \$13,1477,688,25 \$138,422,002,20 \$139,444,660,07   \$13,1477,688,25 \$123,600,000 \$127,375,000   \$13,1477,688,25 \$125,447,028,20 \$127,375,000   \$14,147,758,205 \$125,447,028,20 \$128,946,940,97   \$14,147,788,25 \$126,447,028,20 \$128,946,940,97   \$14,147,788,25 \$126,447,028,20 \$127,375,000   \$14,147,788,125 \$126,447,028,20 \$128,447,776,000   \$14,157,478,442,005 \$21,434,899,50 <td< td=""><td>S9, 314, 400, 00 S9, 620, 000, 00 S17, 919, 75 S17, 919, 75 S17, 919, 75 S17, 917, 73 S17, 907, 734 S17, 807, 734 S17, 807, 734 S17, 807, 734 S17, 807, 734 S17, 807, 734 S17, 807, 735 S17, 807, 735 S120, 000, 000 S123, 900, 000, 00 S123, 900, 000, 00 S131, 477, 688, 25 S135, 422, 020, 20 S134, 445, 680, 20 S134, 425, 800, 000, 00 S124, 758, 755 S140, 642, 788, 75 S140, 644, 788, 75 S140, 644, 71, 51 S135, 668, 100, 50 S133, 6136, 71, 10 S133, 768, 307, 71 S135, 668, 717, 51 S153, 668, 307, 71 S135, 668, 717, 51 S140, 544, 20 S140, 544, 20 S140, 544, 20 S140, 544, 277, 75 S140, 277, 580, 25 S150, 000, 01 S124, 777, 51 S150, 000, 01 S124, 788, 75 S140, 644, 77 S133, 763, 307, 77 S102, 224, 71, 51 S170, 750, 205, 16 S135, 750, 777, 500, 223, 71, 51 S170, 750, 205, 16 S140, 544, 277, 500, 514, 277, 514, 515 S140, 544, 277, 514, 514, 514, 514, 514, 514, 514, 514</td><td>S9, 314, 400, 00 S9, 593, 552, 200 S9, 815, 546, 96 S10, 178, 006, 37 S10, 453, 492, 26   S9, 325, 000, 00 S7, 919, 75 S7, 200, 00 S2, 255, 000, 00 S2, 255, 000, 00 S2, 262, 226, 00 S7, 214, 172, 00 S13, 375, 709, 34   S11, 842, 250, 000, 00 S12, 240, 757, 75 S12, 240, 773, 40 S12, 240, 774, 40 S11, 376, 709, 34   S11, 842, 250, 000, 00 S12, 240, 757, 75 S12, 240, 774, 30 S12, 240, 774, 30 S12, 240, 774, 30   S11, 842, 250, 000, 00 S12, 240, 757, 30 S12, 240, 774, 30 S12, 240, 774, 30 S13, 375, 779, 34   S12, 260, 200, 00 S12, 240, 200, 00 S132, 577, 300, 300, 00 S131, 127, 240, 00 S135, 661, 067, 20   S131, 477, 588, 25 S133, 452, 200, 20 S139, 484, 680, 07 S143, 669, 230, 78 S147, 793, 307, 70   S12, 200, 000, (S5, 512, 500, 00) (S5, 728, 122, 00) (S6, 277, 531, 22) (S3, 26, 864, 516, 75) (S3, 26, 864, 516, 75)   S13, 477, 510, S13, 500, (S1, 307, 750, 00) (S1, 273, 375, 00) (S1, 273, 375, 50) (S1, 377, 558, 360, 77, 700) (S1, 273, 375, 750) (S1, 377, 558, 360, 77, 710) (S1, 377, 558, 360, 77, 710) S132, 671, 730, 93)<!--</td--></td></td<>	S9, 314, 400, 00 S9, 620, 000, 00 S17, 919, 75 S17, 919, 75 S17, 919, 75 S17, 917, 73 S17, 907, 734 S17, 807, 734 S17, 807, 734 S17, 807, 734 S17, 807, 734 S17, 807, 734 S17, 807, 735 S17, 807, 735 S120, 000, 000 S123, 900, 000, 00 S123, 900, 000, 00 S131, 477, 688, 25 S135, 422, 020, 20 S134, 445, 680, 20 S134, 425, 800, 000, 00 S124, 758, 755 S140, 642, 788, 75 S140, 644, 788, 75 S140, 644, 71, 51 S135, 668, 100, 50 S133, 6136, 71, 10 S133, 768, 307, 71 S135, 668, 717, 51 S153, 668, 307, 71 S135, 668, 717, 51 S140, 544, 20 S140, 544, 20 S140, 544, 20 S140, 544, 277, 75 S140, 277, 580, 25 S150, 000, 01 S124, 777, 51 S150, 000, 01 S124, 788, 75 S140, 644, 77 S133, 763, 307, 77 S102, 224, 71, 51 S170, 750, 205, 16 S135, 750, 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750, 00) (S1, 273, 375, 00) (S1, 273, 375, 50) (S1, 377, 558, 360, 77, 700) (S1, 273, 375, 750) (S1, 377, 558, 360, 77, 710) (S1, 377, 558, 360, 77, 710) S132, 671, 730, 93) </td



AND THAT KIND OF IRR WOULD MAKE ANY ENTRY LEVEL FINANCIAL ANALYST WANT TO FLIP A TABLE...

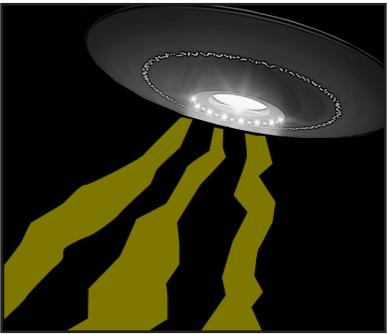


YEAH GUYS, I'M NOT GOING TO LIE TO YOU. NOTHING MAKES SENSE ABOUT WHY WE AMERICANS KEEP BUILDING THESE STADIUMS.

MAYBE YOU SHOULD GO ASK PEOPLE OUTSIDE AMERICA ABOUT THEIR STADIUMS. THEY GENERALLY DO THINGS BETTER THAN US.









("





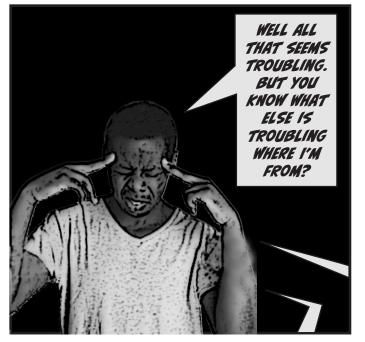
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B

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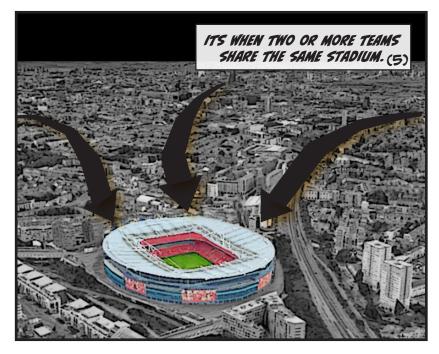






DEFINITELY. THE LEAST WE COULD DO IS GROUNDS. SHARING FOR A FEW OF THE TEAMS THAT PLAY AT THOSE STADIUMS.

> GROUND. SHARING? WHAT'S THAT?

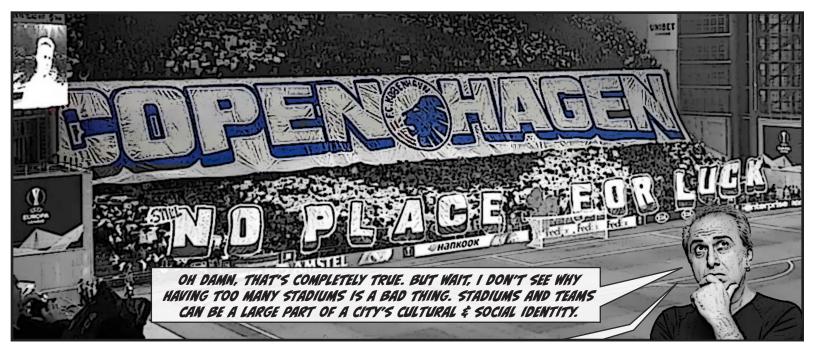


18:1 C. L'S. GROUNDS-SHARING IN LONDON WOULD REMOVE THE NEED FOR HAVING 13 STADIUMS IN THE SAME CITY. AND NOT TO MENTION IT CUTS DOWN ON COST, SAVES SPACE, AND REDUCES NOISE, TRAFFIC, & HOOLIGANISM ACROSS ALL PARTS OF TOWN.



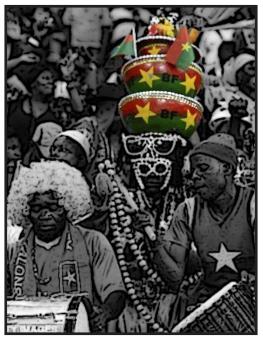
EXACERBATE NOISE, TRAFFIC, & HOOLIGANISM IN THAT ONE PART OF THE CITY WHERE THE GROUNDS-SHARED STADIUM IS LOCATED...

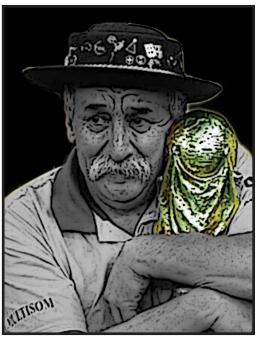
6 (C.

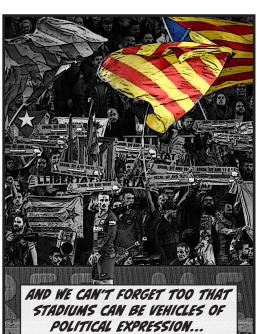


AND NOT TO MENTION THAT STADIUMS, THROUGH THE EVENTS THEY HOST, CAN BE A PART OF A NATION'S CULTURAL & SOCIAL IDENTITY AS WELL.













8

ALSO DON'T FORGET THAT STADIUMS CAN LOOK PRETTY DAMN COOL. WE'VE COME A LONG WAY IN OUR EVOLUTION OF STADIUM DESIGN. PLANNING, & DEVELOPMENT.







- + ARCHITECTURE BASED ON FACTORY BUILDING DESIGN
- + MORE FUNCTIONAL ACCOMMODATES LARGE CROWDS RATHER THAN AESTHETIC ELEGANCE
- + WOOD AS MAIN CONSTRUCTION MATERIAL
- + BASIC LEVELS OF COMFORT & SECURITY
- + MAIN DESIGN & PLANNING GOAL IS TO INCREASE CAPACITY (6)





- + ARCHITECTURE BASED ON FACTORY BUILDING DESIGN
- + REINFORCED CONCRETE AND STEEL REPLACE WOODEN STANDS
- + INCREASES IN STADIUM CAPACITY
- + PROVISION OF MORE COMFORT, SAFETY, &
- COMPLEMENTARY FACILITIES (6)





+ INCORPORATION OF MORE TECHNICAL INNOVATIONS IN DESIGN AND OPERATION (FLOODLIGHTS, FACILITIES, AND BASIC IT SYSTEMS) + INCREASES IN STADIUM CAPACITY (EXTRA TIERS OF STANDS) + INCREASE IN HOSPITALITY SERVICES (6)



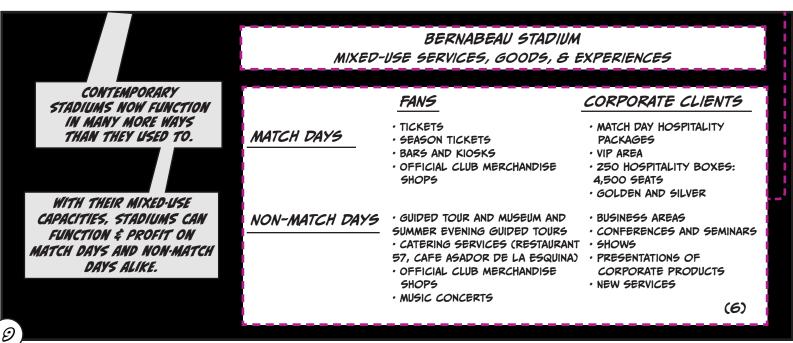


- + CAPACITY REDUCTION (DEMOLITION OF OUTDATED STANDS) + INCREASING COMFORT, SECURITY, ACCESSIBILITY, & COMMERCIAL DEVELOPMENT
- + ARTIFICIAL GRASS AND RETRACTABLE ROOFS & PITCHES + VIEW OF STADIUMS AS MORE THAN SPORTING FACILITIES:
- TOURISTS ATTRACTION, LEISURE CENTERS, BUSINESS CENTERS, ICONS OF CITY MARKETING (6)



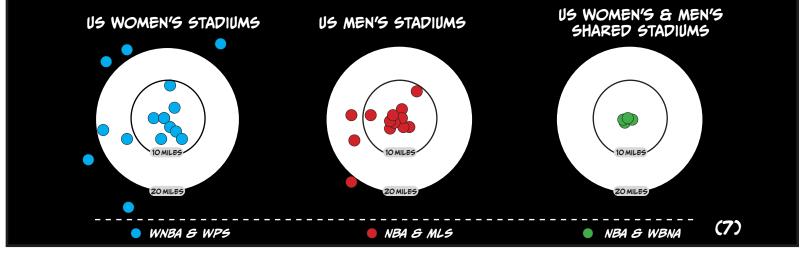
20205

- + CREATION OF MIXED-USE SPACES THAT ALLOW STADIUMS TO GENERATE REVENUE ON MATCH & NON-MATCH DAYS ALIKE
- + INCREASING COMFORT, SECURITY, ACCESSIBILITY, & COMMERCIAL DEVELOPMENT
- + INCREASING TECHNICAL INNOVATION (RETRACTABLE ROOFS & PITCHES)
- + VIEW OF STADIUMS AS MORE THAN SPORTING FACILITIES: TOURISTS ATTRACTION, LEISURE CENTERS, BUSINESS
  - CENTERS, ICONS OF CITY MARKETING (6)



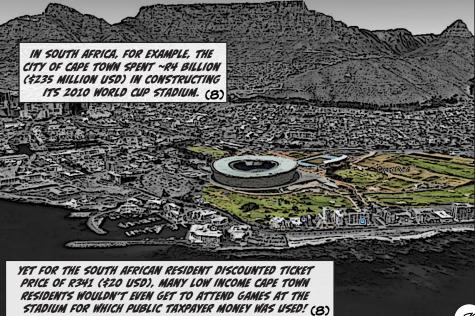


LET'S TAKE A LOOK AT ONE FORM OF GENDER INEQUITY. IN THE US, STADIUMS FOR PRO WOMEN'S TEAMS ARE GENERALLY LOCATED IN SUBURBS, AWAY FROM CITY CENTERS. WHILE LOCATING TEAMS IN SUBURBS CAN SAVE MONEY ON STADIUM COSTS DUE TO LOWER LAND COSTS, LOCATING THE STADIUM FOR A PRO WOMEN'S TEAM AWAY FROM THE HEART OF DOWNTOWN DETRACTS FROM THE FIGHT FOR EQUAL STATUS AMONG MALE & FEMALE ATHLETES. (7)



MANY PEOPLE THINK GENDER EQUITY IN SPORTS IS BASED SOLELY AROUND THE FIGHT FOR EQUAL PAY. BUT STADIUM PLANNING & DEVELOPMENT PLAYS A KEY PART TOO!

OF COURSE, THOUGH, SITUATING A STADIUM DOWNTOWN DOESN'T FIX EVERY FORM OR TYPE OF GENDER INEQUITY. NOR DOES IT FIX THE MYRIAD AMOUNT OF OTHER PROBLEMS.



THIS IS AN IMPORTANT POINT. STADIUMS' LOCATIONS AND WHERE THEY'RE POSITIONED WITHIN CITIES INFLUENCE RACIAL AND SOCIAL (IN)EQUITY FOR NEIGHBORHOODS AND COMMUNITIES.

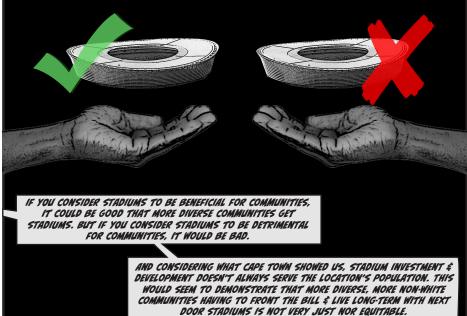
THE EXAMPLE OF CAPE TOWN DEMONSTRATES SEVERE INEQUITIES WHEN CITY & TAXPAYER MONEY FOR STADIUM DEVELOPMENT DOESN'T ACTUALLY SERVE THE local populace, which IS UNFORTUNATELY AN ALL·TOO·COMMON OCCURRENCE.

ADDITIONALLY, IN THE US, RACIAL DISCRIMINATION IS ALSO PART OF INEQUITY WHEN APPLIED TO STADIUM PLANNING È DEVELOPMENT.



IN FACT, IT'S BEEN SHOWN THAT ".... EACH ADDITIONAL 1% INCREASE IN THE FRACTION OF THE LOCAL POPULATION THAT IS WHITE LEADS TO A REDUCTION IN STADIUM CAPACITY OF ABOUT 2,000 SEATS... LANDI A REDUCTION IN TOTAL CONSTRUCTION SPENDING OF ABOUT \$5 MILLION ... " (9)









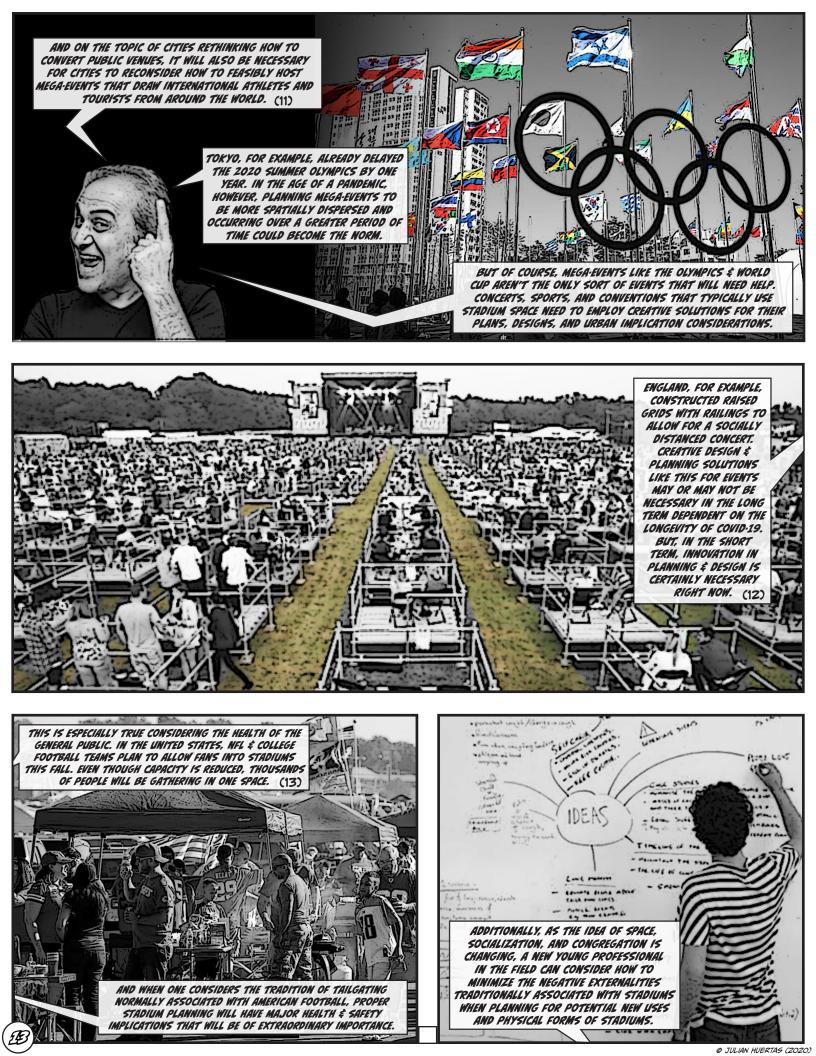
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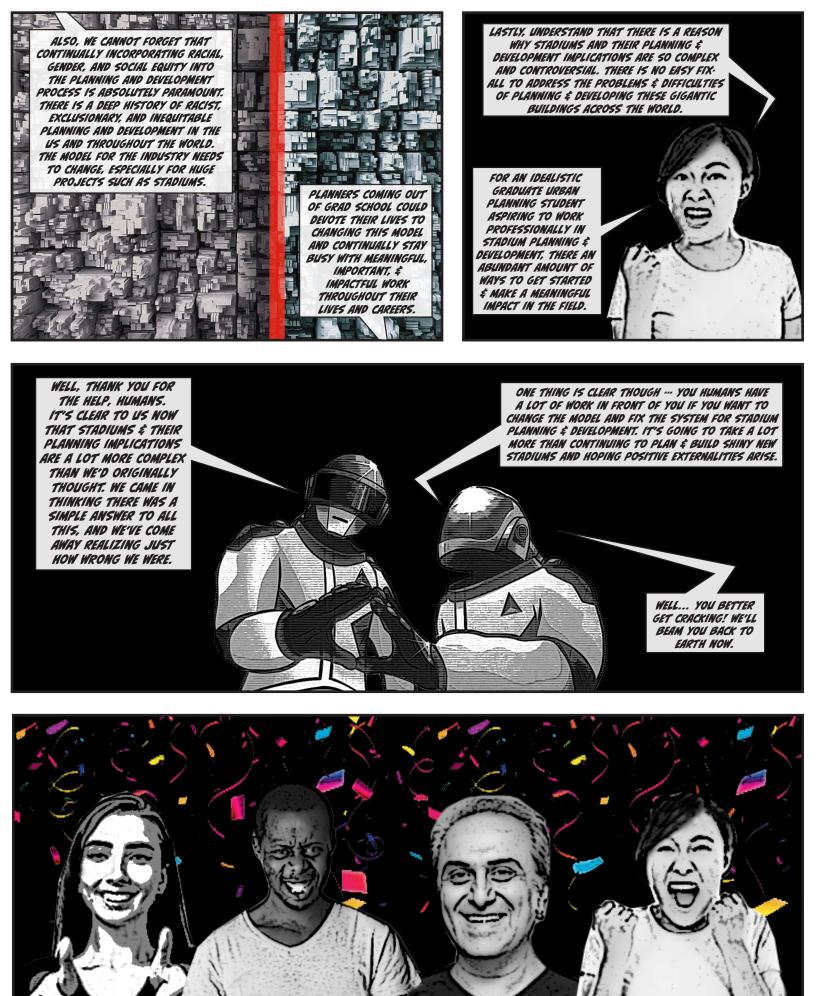
IT'S NOT ALL DARK & GLOOMY. THERE ARE A LOT OF WAYS IN WHICH A GRAD STUDENT WITH STADIUM PLANNING & DEVELOPMENT ASPIRATIONS CAN WORK & MAKE AN IMPACT IN THE FIELD.

> FOR ONE, THE COVID-19 PANDEMIC SHOWS JUST HOW IMPORTANT IT IS NOW TO CREATE NEW & ALTERNATIVE METHODS FOR STADIUM PLANNING (AND MEGA-EVENT PLANNING TOO).

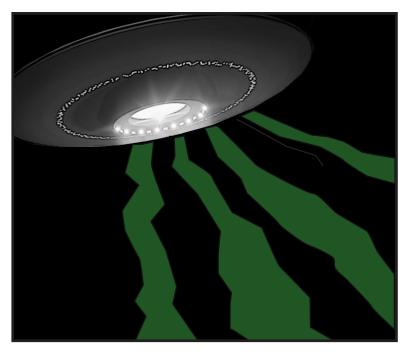
> > FANGCANG SHELTER HOSPITALS IN CHINA, FOR EXAMPLE, WERE CONVERTED FROM EXISTING STADIUMS TO HOUSE NEWLY INFECTED COVID PATIENTS. THEY PROVIDED A NOVEL APPROACH TO TREATING PATIENTS & ERECTING TEMPORARY HOSPITAL FACILITIES. THEIR SUCCESS IN CHINA DEMONSTRATES THE UTILITY OF PLANNING AND DESIGNING VENUES SPACES TO EASILY CONVERT INTO AND SERVE AS EMERGENCY HEALTHCARE INFRASTRUCTURE. (10)

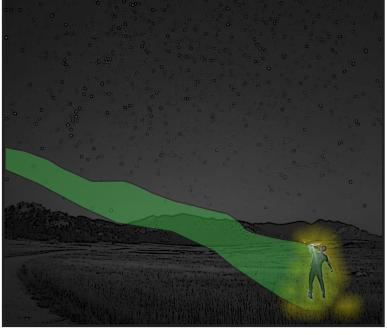
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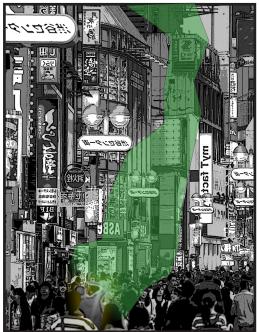




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THE CASE OF THE INCOMPREHENSIBLE STADIUM

> A SUMMER 2020 INDEPENDENT STUDY GRAPHIC NOVEL MANIFESTO ON:

STADIUM PLANNING & DEVELOPMENT

JULIAN HUERTAS, MUP 2021 HARVARD UNIVERSITY GRADUATE SCHOOL OF DESIGN

## REFERENCE LIST

- (1) LERTWACHARA, K. & COCHRAN, J. (2007). AN EVENT STUDY OF THE ECONOMIC IMPACT OF PROFESSIONAL SPORT FRANCHISES ON LOCAL U.S. ECONOMIES. JOURNAL OF SPORTS ECONOMICS, 8 (3). PP. 244-254.
- (2) COATES, D. & HUMPHREYS, B. (2003). PROFESSIONAL SPORTS FACILITIES, FRANCHISES AND URBAN ECONOMIC DEVELOPMENT. PUBLIC FINANCE AND MANAGEMENT, 3 (3). PP. 335-357.
- (3) MILLER, P. (2002). THE ECONOMIC IMPACT OF SPORTS STADIUM CONSTRUCTION: THE CASE OF THE CONSTRUCTION INDUSTRY IN ST. LOUIS, MO. JOURNAL OF URBAN AFFAIRS, 24 (2). PP. 159-173.
- (4) GAFFNEY, C.T. (2008). TEMPLES OF THE EARTHBOUND GODS: STADIUMS IN THE CULTURAL LANDSCAPES OF RIO DE JANEIRO AND BUENOS AIRES. AUSTIN, TX: UNIVERSITY
- (5) BALE, J. (2000). THE CHANGING FACE OF FOOTBALL: STADIUMS AND COMMUNITIES. SOCCER & SOCIETY, 1 (1). PP. 91-101.
- (6) PARAMIO, J.L., BURAIMO, B., & CAMPOS, C. (2008). FROM MODERN TO POSTMODERN: THE DEVELOPMENT OF FOOTBALL STADIA IN EUROPE. SPORT IN SOCIETY, 11 (5) PP. 517-
- (7) SCHUETZ, J. (2019). WHEN IT COMES TO SPORTS, MEN AND WOMEN DON'T PLAY ON THE SAME FIELDS. BROOKINGS. RETRIEVED JUNE 8TH, 2020 FROM WWW.BROOKINGS.EDU/BLOG/THE-AVENUE/2019/03/22/ WHEN-IT-COMES-TO-SPORTS-MEN-AND-WOMEN-DONT-PLAY-ON-THE-SAME-FIELDS/.
- (8) ALEGI, P. (2008). A NATION TO BE RECKONED WITH': THE POLITICS OF WORLD CUP STADIUM CONSTRUCTION IN CAPE TOWN AND DURBAN, SOUTH AFRICA. *AFRICAN STUDIES*, 67 (3). PP. 397-422.
- (9) BODVARSSON, O.B. & HUMPHREYS, B.R. (2013). LABOR MARKET DISCRIMINATION AND CAPITAL: THE EFFECTS OF FAN DISCRIMINATION ON STADIUM AND ARENA CONSTRUCTION. CONTEMPORARY ECONOMIC POLICY, 31 (3). PP. 604-617.
- (10) CHEN, S., ZHANG, Z., YANG, J., WANG, J., ZHAI, X., BÄRNIGHAUSEN, T. & WANG, C. (2020). FANGCANG SHELTER HOSPITALS: A NOVEL CONCEPT FOR RESPONDING TO PUBLIC HEALTH EMERGENCIES. LANCET, 395. PP. 1305-1314.
- MÜLLER, M. (2015). THE MEGA-EVENT SYNDROME: WHY SO MUCH GOES WRONG IN MEGA-EVENT PLANNING AND WHAT TO DO ABOUT IT. JOURNAL OF THE AMERICAN PLANNING ASSOCIATION, 81 (1). PP. 6-17.

B

- (12) WOODYATT, A. (2020). UK'S FIRST SOCIALLY DISTANCED CONCERT SHOWS WHAT THE FUTURE OF LIVE MUSIC MIGHT LOOK LIKE. CNN. RETRIEVED AUGUST 20TH, 2020 FROM HTTPS://WWW.CNN.COM/ TRAVEL/ARTICLE/SOCIAL-DISTANCED-MUSIC-FESTIVAL-INTL-SCLI-GBR/INDEX.HTML
- (13) BLINDER, A. (2020). COLLEGE FOOTBALL'S PANDEMIC PLAYBOOK: FEWER FANS, NO TAILGATING, NO BANDS. NEW YORK TIMES. RETRIEVED AUGUST 30TH, 2020 FROM HTTPS://WWW.NYTIMES. COM/2020/08/27/SPORTS/COLLEGE-FOOTBALL-FANS-STADIUMS.HTML